

40997891

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STRUCTURE FILE UPDATES: 11 JUN 2003 HIGHEST RN 529474-19-9
DICTIONARY FILE UPDATES: 11 JUN 2003 HIGHEST RN 529474-19-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

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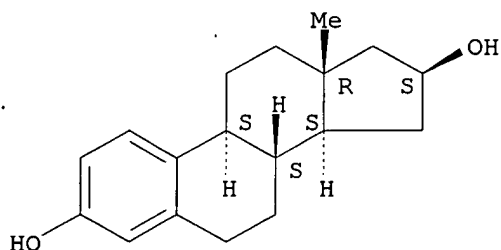
Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s 1225-58-7/rn
L10 1 1225-58-7/RN

=> d l10

L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 1225-58-7 REGISTRY
CN Estra-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Estra-1,3,5(10)-triene-3,16.beta.-diol (6CI, 7CI, 8CI)
OTHER NAMES:
CN 16.beta.-Estradiol
CN 3,16.beta.-Dihydroxyestra-1,3,5,(10)-triene
FS STEREOSEARCH
MF C18 H24 O2
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CSCHM, TOXCENTER
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

40997891

17 REFERENCES IN FILE CA (1957 TO DATE)
17 REFERENCES IN FILE CAPLUS (1957 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.08	71.42

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-5.85

CA SUBSCRIBER PRICE

FILE 'CAPLUS' ENTERED AT 14:06:47 ON 12 JUN 2003
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FILE COVERS 1907 - 12 Jun 2003 VOL 138 ISS 24
FILE LAST UPDATED: 11 Jun 2003 (20030611/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l10

L11 17 L10

=> d l11 1-4 ibib hitstr abs

L11 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:552017 CAPLUS

DOCUMENT NUMBER: 133:150782

TITLE: synthesis of 16-Hydroxyestratrienes as selectively effective estrogens

INVENTOR(S): Kuenzer, Hermann; Knauthe, Rudolf; Lessl, Monika; Fritzemeier, Karl-heinrich; Hegele-Hartung, Christa; Boemer, Ulf; Mueller, Gerd; Rosemund, Dirk

PATENT ASSIGNEE(S): Schering A.-G., Germany

SOURCE: Ger. Offen., 34 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19906159	A1	20000810	DE 1999-19906159	19990209
CA 2359660	AA	20000817	CA 2000-2359660	20000209
WO 2000047603	A2	20000817	WO 2000-EP1073	20000209
WO 2000047603	A3	20010802		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2000029095	A5	20000829	AU 2000-29095	20000209
EP 1144431	A2	20011017	EP 2000-907539	20000209
EP 1144431	A3	20020612		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000008076	A	20020205	BR 2000-8076	20000209
JP 2002536455	T2	20021029	JP 2000-598520	20000209
EE 200100412	A	20021216	EE 2001-412	20000209
NO 2001003860	A	20011008	NO 2001-3860	20010808
BG 105804	A	20020329	BG 2001-105804	20010809
PRIORITY APPLN. INFO.:			DE 1999-19906159 A	19990209
			WO 2000-EP1073 W	20000209

OTHER SOURCE(S): MARPAT 133:150782

IT 1225-58-7

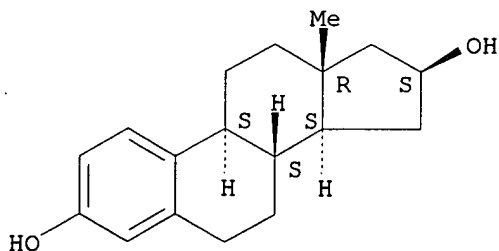
RL: RCT (Reactant); RACT (Reactant or reagent)

(synthesis of 16-Hydroxyestratrienes as selectively effective estrogens)

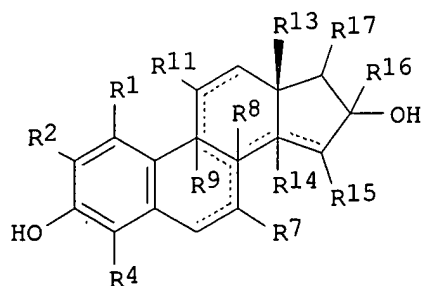
RN 1225-58-7 CAPLUS

CN Estra-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI



I

AB Synthesis of 16-Hydroxyestratrienes (I) [R1 = halogen, HO, Me, F3C, MeO, EtO, H; R2 = halogen, HO, (un)substituted alkoxy, H; R4 = halogen, fluoroalkyl, F3C, F5C2, (un)substituted alkoxy, H; R7 = halogen, (un)substituted alkyl, (un)substituted alkenyl, (un)substituted alkoxy, (un)substituted heteroaryl, (un)substituted aryl, H; R8 = H, fluoroalkyl, fluoroalkenyl, CN; R9 = H, Me, Et, F3C, F5C2; R11 = NO2O, HO, HS, halogen, chloromethyl, fluoroalkenyl, fluoroalkyl, (un)substituted alkoxy, (un)substituted alkylthio, (un)substituted aryl, (un)substituted heteroaryl, H; R13 = Me, Et, F3C, F5C2; R14 = (un)substituted alkenyl, (un)substituted alkyl, H; R15 = halogen, fluoroalkyl, fluoroalkenyl, =O, =S, SO, SO2, (un)substituted =NH; R14, R15 together = methylene; R16 = fluoroalkyl, fluoroalkenyl, F3C, F5C2, CN, H; R17 = fluoroalkyl, fluoroalkenyl, H, HO] as selectively effective estrogens is disclosed. Thus, 16.alpha.-estradiol shows a 50% uterine stimulation at 30 .upsilon.g in in vivo testing.

L11 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:801 CAPLUS

DOCUMENT NUMBER: 112:801

TITLE: Relative mitogenic activities of various estrogens and antiestrogens

AUTHOR(S): Stack, Gary; Korach, Kenneth; Gorski, Jack

CORPORATE SOURCE: Coll. Agric. Life Sci., Univ. Wisconsin, Madison, WI, 53706, USA

SOURCE: Steroids (1989), 54(2), 227-43

CODEN: STEDAM; ISSN: 0039-128X

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 1225-58-7, 16.beta.-Estradiol

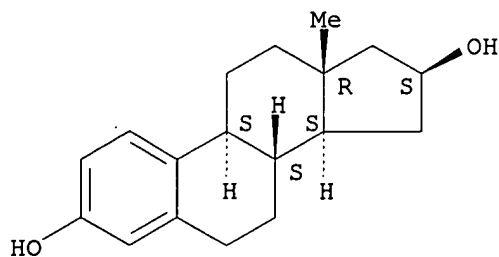
RL: PROC (Process)

(mitogenic action of, on uterus, mol. structure in relation to)

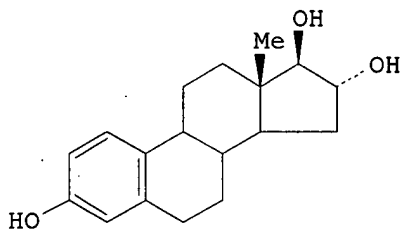
RN 1225-58-7 CAPLUS

CN Estra-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)

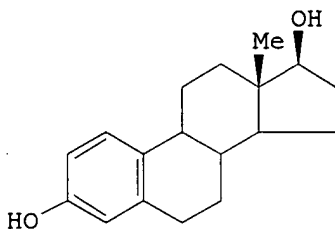
Absolute stereochemistry.



GI



I



II

AB The abilities of a variety of estrogens and antiestrogens to stimulate DNA synthesis in the prepuberal rat uterus were compared. One microgram of each compd. was administered in vivo via a single i.p. injection. DNA synthesis was assayed in vitro in isolated nuclei 24 h later. The relative mitogenicities of the steroidal estrogens were : 16.alpha.-estradiol < 17.alpha.-estradiol = estriol (I) = 16-epiestriol < 16.beta.-estradiol = 17.beta.-estradiol (II). The potencies of several nonsteroidal estrogens were also tested. Indenestrol A was as potent as II, whereas indanestrol and dimethylstilbestrol had weaker activities. The antiestrogens, nafoxidine and 4-hydroxytamoxifen, were both potent stimulators of DNA synthesis. The abilities of an estrogen to stimulate increases in uterine wet wt., DNA polymerase .alpha. activities, and DNA synthesis in uterine nuclei 24 h after injection were closely correlated. Because the magnitude of the stimulation of DNA synthesis was greatest, its measurement is the most sensitive of these assays, of uterotrophic activity.

L11 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1988:622771 CAPLUS

DOCUMENT NUMBER: 109:222771

TITLE: Effect of endogenous and synthetic sex steroids on the clearance of antibody-coated cells

AUTHOR(S): Schreiber, A. D.; Nettl, F. M.; Sanders, M. C.; King, M.; Szabolcs, P.; Friedman, D.; Gomez, F.

CORPORATE SOURCE: Cancer Cent., Univ. Pennsylvania, Philadelphia, PA, 19104, USA

SOURCE: Journal of Immunology (1988), 141(9), 2959-66

CODEN: JOIMA3; ISSN: 0022-1767

DOCUMENT TYPE: Journal

LANGUAGE: English

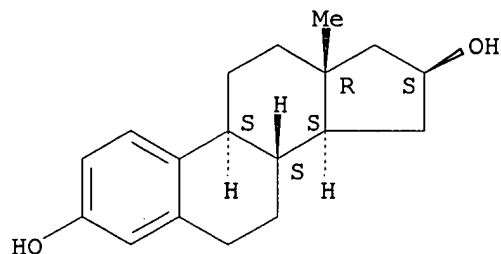
IT 1225-58-7

RL: BIOL (Biological study)

40997891

(IgG-coated erythrocyte clearance by spleen macrophage stimulation by)
RN 1225-58-7 CAPLUS
CN Estra-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB An exptl. model developed in the guinea pig, was used to study the effects of female sex hormones on macrophage clearance of IgG- and IgM-coated erythrocytes in the spleen and liver. Progesterone, its naturally occurring analog 17-hydroxyprogesterone, and its synthetic analog 16-methylprogesterone inhibited the clearance of IgG-coated erythrocytes by splenic macrophages. Furthermore, when splenic macrophages were isolated from progesterone-treated animals they expressed decreased Fc.gamma.R activity. Estradiol, estriol, and the estrogen analog 1,3,5(10)-estratriene-3,16.beta.-diol enhanced splenic macrophage clearance of IgG-coated erythrocytes. This action of the estrogens could be partially inhibited by the antiestrogen tamoxifen. However, estradiol did not affect the C3-dependent clearance of IgM-coated erythrocytes by hepatic macrophages. Concurrent administration of estradiol and progesterone demonstrated that the action of estradiol was predominant. Thus, female sex hormones alter splenic macrophage Fc.gamma.R function at concns. obsd. during the human menstrual cycle and pregnancy. This result may also explain alteration of disease activity in some human immunol. disorders during changes in the hormonal states.

L11 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1987:96443 CAPLUS

DOCUMENT NUMBER: 106:96443

TITLE: Influence of adrenergic receptors on ovarian progesterone secretion in the pseudopregnant cat and estradiol secretion in the estrous cat

AUTHOR(S): Wheeler, A. G.; Walker, M.; Lean, J.

CORPORATE SOURCE: Dep. Physiol. Pharmacol., Univ. Queensland, St. Lucia, 4067, Australia

SOURCE: Journal of Reproduction and Fertility (1987), 79(1), 195-205

CODEN: JRPFA4; ISSN: 0022-4251

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 1225-58-7

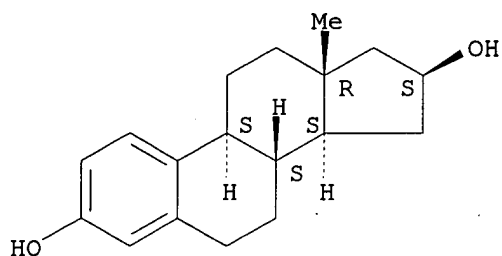
RL: PROC (Process)

(secretion of, by ovary, adrenergic receptors in relation to)

RN 1225-58-7 CAPLUS

CN Estra-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB The infusion of isoprenaline [7683-59-2] or propranolol into the abdominal aorta of the pseudopregnant cat caused an increase or decrease, resp., in the ovarian progesterone [57-83-0] secretion rate. Apparently, the sympathetic innervation of the ovary has a physiol. influence on normal progesterone secretion, and this mechanism may explain stress-related increases in progesterone concns. The infusion of isoprenaline or propranolol after the stimulation of follicular growth had no consistent or convincing effect on estradiol [1225-58-7] secretion.

=> d 110 5-17 ibib hitstr abs

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

1 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):5-17

1 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):end

=> d his

(FILE 'HOME' ENTERED AT 13:10:32 ON 12 JUN 2003)

FILE 'REGISTRY' ENTERED AT 13:10:38 ON 12 JUN 2003

L1 1 S 28834-40-4/RN

L2 1 S L1 FULL

FILE 'CAPLUS' ENTERED AT 13:12:23 ON 12 JUN 2003

L3 3 S L2

FILE 'REGISTRY' ENTERED AT 13:17:42 ON 12 JUN 2003

L4 STR 28834-40-4

L5 0 S L4 FAM SAM

FILE 'REGISTRY' ENTERED AT 14:03:13 ON 12 JUN 2003

L6 1 S 16 ALPHA ESTRADIOL

FILE 'CAPLUS' ENTERED AT 14:03:51 ON 12 JUN 2003

L7 3 S L1

FILE 'REGISTRY' ENTERED AT 14:04:32 ON 12 JUN 2003

L8 1 S 1090-04-6/RN

FILE 'CAPLUS' ENTERED AT 14:05:06 ON 12 JUN 2003
L9 3 S L7

FILE 'REGISTRY' ENTERED AT 14:06:05 ON 12 JUN 2003
L10 1 S 1225-58-7/RN

FILE 'CAPLUS' ENTERED AT 14:06:47 ON 12 JUN 2003
L11 17 S L10

FILE 'REGISTRY' ENTERED AT 14:08:46 ON 12 JUN 2003

FILE 'CAPLUS' ENTERED AT 14:08:57 ON 12 JUN 2003

=> d l11 5-17 ibib hitstr abs

L11 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1987:16187 CAPLUS

DOCUMENT NUMBER: 106:16187

TITLE: Methylcholanthrene: a possible pseudosubstrate for
adrenocortical 17.alpha.-hydroxylase and aryl
hydrocarbon hydroxylase

AUTHOR(S): Hornsby, Peter J.; Aldern, Kathy A.; Harris, Sandra E.

CORPORATE SOURCE: Sch. Med., Univ. California, La Jolla, CA, 92093, USA

SOURCE: Biochemical Pharmacology (1986), 35(19), 3209-19

CODEN: BCPCA6; ISSN: 0006-2952

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 1225-58-7, Estra-1,3,5(10)-triene-3,16.beta.-diol

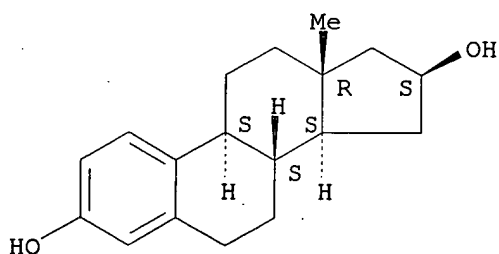
RL: BIOL (Biological study)

(aryl hydrocarbon hydroxylase and steroid 17.alpha.-hydroxylase
response to, in adrenocortical cells)

RN 1225-58-7 CAPLUS

CN Estra-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB In cultured bovine adrenocortical cells, the loss of steroid
17.alpha.-hydroxylase (I) activity was obsd. after incubation with
3-methylcholanthrene (3-MC). The suppression of I by 3-MC was rapid (50%
loss of activity in 10 h at 1 .mu.m 3-MC), did not exhibit a lag period,
and was not affected by cycloheximide. Direct effects of 3-MC on I were
obsd. only at high concns., but the concn. for 50% loss of activity was
0.3 .mu.M when 3-MC was added for 24 h prior to assay of I. High concns.
(to 40 .mu.M) of substrate (progesterone), did not affect the loss of
activity due to 3-MC. Loss of I activity was specific; steroid

11.β.-hydroxylase was unaffected and cell growth was unaltered. However, 22-amino-23,24-bisnorcholesterol-5-en-3.β.-ol, an inhibitor of I, partially prevented the loss of I at 1-30 nM. 3-MC was thought to induce cytochrome P 450s via a receptor with high affinity for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). TCDD was without effect on I over the range 10 nM-10 μM. Benz[a]anthracene, 7,12-dimethylbenz[a]anthracene, benzo[a]pyrene, chrysene, and methylphenanthrenes suppressed I at high concns. (10-50 μM for 50% loss of activity). Some steroids that lack a substituent at position 17 also caused loss of I. Like I, bovine adrenocortical cell aryl hydrocarbon hydroxylase (II) was found to be suppressed by exposure to 3-MC. Compds. that caused loss of I caused loss of II, with a similar order of potency and at similar concns. Suppression of II by 3-MC did not require protein synthesis and was prevented by an inhibitor of enzymic activity, α.-naphthoflavone. This implied a degree of similarity of the cytochrome P 450s for I and II, but the activities were shown to be likely due to different enzymes. The suppression of I and II by 3-MC appeared not to occur by a receptor-mediated mechanism but to be similar to the suppression of steroid 11.β.-hydroxylase and steroid 21-hydroxylase by steroid pseudosubstrates previously obsd.

L11 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1985:574487 CAPLUS

DOCUMENT NUMBER: 103:174487

TITLE: Isolation of novel microbial 3.α.-, 3.β.-, and 17.β.-hydroxysteroid dehydrogenases. Purification, characterization, and analytical applications of a 17.β.-hydroxysteroid dehydrogenase from an *Alcaligenes* sp

AUTHOR(S): Payne, Donna W.; Talalay, Paul

CORPORATE SOURCE: Sch. Med., Johns Hopkins Univ., Baltimore, MD, 21205, USA

SOURCE: Journal of Biological Chemistry (1985), 260(25), 13648-55

CODEN: JBCHA3; ISSN: 0021-9258

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 1225-58-7

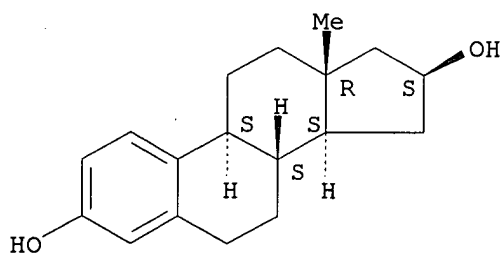
RL: BIOL (Biological study)

(17.β.-hydroxy steroid dehydrogenase of *Alcaligenes* specificity for, structure in relation to)

RN 1225-58-7 CAPLUS

CN Estr-1,3,5(10)-triene-3,16-diol, (16.β.-) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB By selecting for growth on testosterone or 17.beta.-estradiol as the only source of org. C, a no. of soil microorganisms which contain highly active and novel, inducible, NAD-linked 3.alpha.-, 3.beta.-, and 17.beta.-hydroxy steroid dehydrogenases were isolated. Such enzymes are suitable for the microanal. of steroids and of steroid-transforming enzymes, as well as for performing stereoselective oxidns. and redn. of steroids. Of particular interest among these organisms is a new species of *Alcaligenes* contg. 17.beta.-hydroxy steroid dehydrogenase (I) easily separable from 3.beta.-hydroxy steroid dehydrogenase activity. Unlike any of the other isolated organisms, this *Alcaligenes* species contained no 3.alpha.-hydroxy steroid dehydrogenase activity. A large-scale purifn. (763-fold) to homogeneity of the major induced I was achieved by ion-exchange, hydrophobic, and affinity chromatogs. The enzyme has high specific activity for the oxidn. of testosterone ($V_{max} = 303 \text{ .}\mu\text{mol/min/mg}$ protein; $K_m = 3.6 \text{ .}\mu\text{M}$) and reacts almost equally well with 17.beta.-estradiol ($V_{max} = 356 \text{ .}\mu\text{mol/min/mg}$; $K_m = 6.4 \text{ .}\mu\text{M}$). It consists of apparently identical subunits mol. wt. = 32,000 and exists in polymeric form under nondenaturing conditions (mol. wt. = 68,000 by gel filtration. and 86,000 by polyacrylamide gel electrophoresis). The isoelec. point is pH 5.1. The enzyme is almost completely specific for 17.beta.-hydroxy steroids which may be .DELTA.5-olefins or ring A phenols or have cis or trans A/B ring fusions. Substituents at other positions are tolerated, although the presence of a 16.alpha.- or 16.beta.-OH group blocks the oxidn. of the 17.beta.-OH function. 3.beta.-Hydroxy steroids (A/B ring fusion trans, but not cis, or .DELTA.5-olefins) are very poor substrates. The application of this highly active, specific, and stable I to the microestn. of steroids by enzymic cycling of nicotinamide nucleotides and for the stereospecific oxidn. of steroids is demonstrated.

L11 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1984:47664 CAPLUS

DOCUMENT NUMBER: 100:47664

TITLE: Inhibitor specificity of the placental microsomal oxidase system responsible for the aromatization of epitestosterone (17.alpha.-hydroxy-4-androsten-3-one)

AUTHOR(S): Sheean, Leon A.; Meigs, Robert A.

CORPORATE SOURCE: Sch. Med., Case Western Reserve Univ., Cleveland, OH, 44106, USA

SOURCE: Steroids (1983), 41(2), 225-41

CODEN: STEDAM; ISSN: 0039-128X

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 1225-58-7

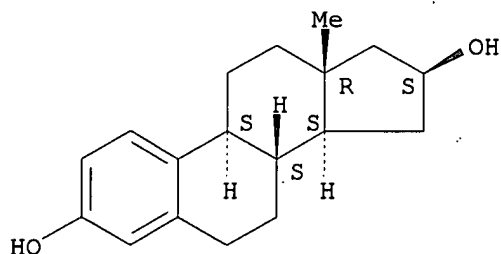
RL: BIOL (Biological study)

(epitestosterone oxidase of human placenta microsomes inhibition by)

RN 1225-58-7 CAPLUS

CN Estra-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Human placental microsomes converted epitestosterone to 17.alpha.-estradiol at rates of 23-48 pmol/min/mg protein with a Km of 113 .mu.M. The activity was inhibited 70-90% by concns. of CO, metyrapone, octylamine, 7,8-benzoflavone, and 7-ethoxycoumarin which had no effect on the aromatization of 4-androstene-3,17-dione. Conversely, CN- and N3- were more effective inhibitors of the conversion of the latter androgen. A variety of neutral steroids inhibited the aromatization of epitestosterone with 19-norsteroids being particularly effective, but competitive effects could not be demonstrated. Both 17.beta.-hydroxy-4-estren-3-one and 16.alpha.-hydroxy-4-androstene-3,17-dione caused a mixed inhibition. A no. of phenolic steroids were also inhibitory with 16-oxo compds. being particularly effective. Inhibition by estrone was non-competitive (Ki = 16 .mu.M). The aromatization of epitestosterone resembles placental microsomal oxidase activities against estrone and benzo[a]pyrene in its inhibitor specificity and epitestosterone may be the native substrate for an oxidase also active in the metab. of arom. xenobiotic chems.

L11 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1981:561659 CAPLUS

DOCUMENT NUMBER: 95:161659

TITLE: Characteristics of membrane transport of methotrexate by cultured human breast cancer cells

AUTHOR(S): Schilsky, Richard L.; Bailey, Brenda D.; Chabner, Bruce A.

CORPORATE SOURCE: Div. Cancer Treat., Natl. Cancer Inst., Bethesda, MD, 20205, USA

SOURCE: Biochemical Pharmacology (1981), 30(12), 1537-42
CODEN: BCPCA6; ISSN: 0006-2952

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 1225-58-7

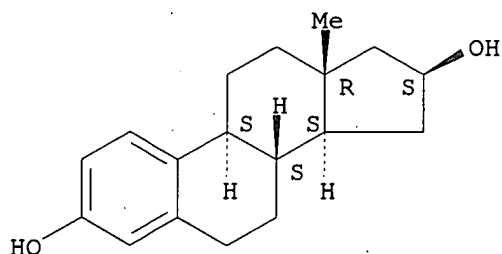
RL: BIOL (Biological study)

(methotrexate transport by breast cancer cells response to)

RN 1225-58-7 CAPLUS

CN Estra-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Methotrexate (I) [59-05-2] transport by MCF-7 cells and cultured estrogen- and insulin [9004-10-8]-sensitive human breast cancer cells exhibited a high-affinity carrier system that displayed Michaelis-Menten kinetics (K_m 8.22 μ M, V_{max} 12.22 nmol/min/g cell protein), was competitively inhibited by leucovorin and aminopterin but not folic acid, and was temp.-sensitive (Q_{10} 2.25). Initial uptake rates were not affected by ouabain or NaN₃, but efflux of intracellular drug was markedly inhibited by NaN₃, suggesting an energy-dependent efflux mechanism. A low affinity uptake component was identified with extracellular I >10 μ M, possibly representing a lower affinity membrane carrier or passive diffusion. Growth of MCF-7 cells in serum-free medium induced an increase in K_m to 15.93 μ M; insulin, but not estradiol, reversed this change. Thus, I transport in this human solid tumor is similar to that in human leukemia cells.

L11 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1978:116912 CAPLUS

DOCUMENT NUMBER: 88:116912

TITLE: Inhibition of human placental 17 β -hydroxysteroid dehydrogenase by steroids and nonsteroidal alcohols: aspects of inhibitor structure and binding specificity
AUTHOR(S): Blomquist, Charles H.; Kotts, Claire E.; Hakanson, Erick Y.

CORPORATE SOURCE: Dep. Obstet. Gynecol., St. Paul-Ramsey Hosp., St. Paul, MN, USA

SOURCE: Archives of Biochemistry and Biophysics (1978), 186(1), 35-41

CODEN: ABBIA4; ISSN: 0003-9861

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 1225-58-7

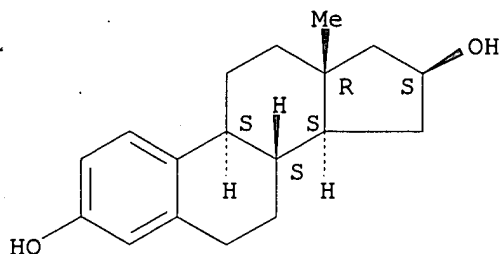
RL: BIOL (Biological study)

(17 β -hydroxysteroid dehydrogenase inhibition by, kinetics of)

RN 1225-58-7 CAPLUS

CN Estra-1,3,5(10)-triene-3,16-diol, (16 β .)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Inhibition of human placental 17.β.-hydroxysteroid dehydrogenase by C18 and C19 steroids and nonsteroidal alcs. was assayed at pH 9.0 with 17.β.-estradiol 3-Me ether and NAD as reactants. The nonsteroidal alcs. tested were poor inhibitors. Cyclopentanol and cyclohexanol had K_i values $>5\text{mM}$. Nonarom. C18 and C19 steroids with O functions at both positions 3 and 17 gave no detectable inhibition or had K_i values $\geq 160\text{ }\mu\text{M}$. 3.β.-Hydroxy-5,16-androstadiene, 5-androsten-3.β.-ol, 1,3,5(10)-estratrien-3-ol, and 1,3,5(10),16-estratetraen-3-ol, steroids lacking a C(17) oxygen function, had K_i values of 1.8, 6.0, 0.04, and 0.17 μM , resp., demonstrating that both C18 and C19 steroids can bind at the steroid site. Binding specificity is narrowed and binding affinity for nonarom. steroids weakened by O functions at C(17) or both C(3) and C(17). The structural implications of the specificity data for steroid recognition and complex formation and in vivo control of enzyme activity are discussed.

L11 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1973:505459 CAPLUS

DOCUMENT NUMBER: 79:105459

TITLE: Chromogenic reactions of steroids with strong acids. IV. Specificity of the Kober reaction

AUTHOR(S): Kimura, Michiya; Kawata, Meiji; Akiyama, Kazuyuki; Harita, Kazuaki; Miura, Toshiaki

CORPORATE SOURCE: Fac. Pharm. Sci., Hokkaido Univ., Sapporo, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1973), 21(8), 1720-6

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

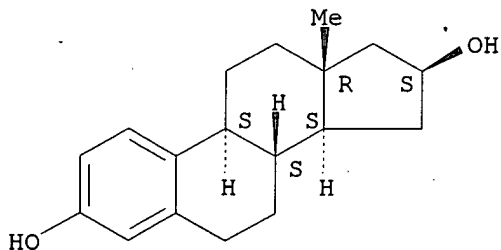
IT 1225-58-7

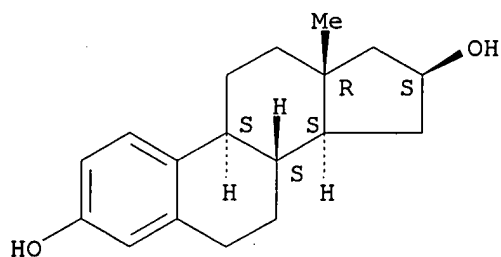
RL: RCT (Reactant); RACT (Reactant or reagent)
(Kober reaction of, absorption spectra and)

RN 1225-58-7 CAPLUS

CN Estradiol, 17β- (17β-estradiol) (9CI) (CA INDEX NAME)

Absolute stereochemistry.





AB The structural requirements were investigated for the Kober reaction of steroidal mols. On the basis of the data given by 94 phenolic steroids and related substance, a compd. will give the pos. Kober reaction when a steroidal ring system, a phenolic ring A, double bond or O function in ring D, an angular Me group at C-13, and an angular H atom are present in its mol.

L11 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1970:495274 CAPLUS

DOCUMENT NUMBER: 73:95274

TITLE: Absorption and fluorescence spectra of phenolic steroids and their Kober chromophore

AUTHOR(S): De Lauzon, Solange

CORPORATE SOURCE: Lab. Chim. Biol., Fac. Med., Paris, Fr.

SOURCE: Bulletin de la Societe de Chimie Biologique (1970), 52(2), 181-209

CODEN: BSCIA3; ISSN: 0037-9042

DOCUMENT TYPE: Journal

LANGUAGE: French

IT 1225-58-7

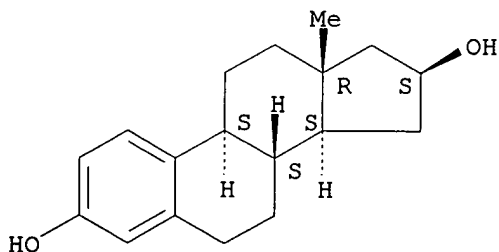
RL: PRP (Properties)

(fluorescence and visible spectra of, and its Kober chromogen)

RN 1225-58-7 CAPLUS

CN Estra-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB A complete assignment was made of the absorption and fluorescence spectra of a no. of phenolic steroids and their derivs. and the results may be used to identify and det. each estrogen studied. The reaction of various derivs. which cannot be differentiated by the behavior of the Kober chromophore, or do not form a Kober chromophore, in H₂SO₄ and H₃PO₄ was used as an identification method. These derivs. included ketonic derivs. of estrone and estradiol, 16-hydroxy derivs. of estrone and their Et and Me ethers, and non-oxygenated C₁₇ derivs. The Kober reaction was used as

a detn. method for derivs. giving a characteristic absorption max., and the Ittrich modification allowed a sensitive anal. method to be developed for the steroid groups.

L11 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1970:452631 CAPLUS

DOCUMENT NUMBER: 73:52631

TITLE: Steroid utilization by amphibian skin

AUTHOR(S): Ferguson, M. M.; McGadey, J.

CORPORATE SOURCE: Anat. Dep., Univ. Glasgow, Glasgow, UK

SOURCE: Histochemie (1970), 22(1), 36-8

CODEN: HICHAU; ISSN: 0018-2222

DOCUMENT TYPE: Journal

LANGUAGE: English

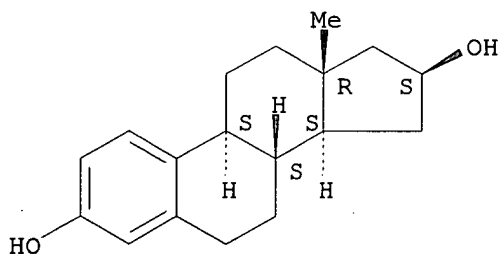
IT 1225-58-7

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(metabolism of, by skin)

RN 1225-58-7 CAPLUS

CN Estr-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB The glands which secrete unpleasant tasting or toxic substances in amphibian dermis were investigated histochem. for hydroxysteroid dehydrogenase (I) activity to draw comparisons with mammalian sebaceous glands, which are known to utilize hydroxy steroids. Skin sections from frogs were incubated with 15 different steroids; serial sections were also stained with hematoxylin and eosin and by the periodic acid-Schiff (PAS) reaction to differentiate mucous glands. The frog skin contained at least 2 functional types of glands; one type was PAS-pos., while the second type, less common, was PAS-neg. but exhibited intense I activity. Tissue incubated with pregnenolone, dehydroepiandrosterone, 3.beta.-hydroxyandrost-5-en-16-one 3-methyl ether, and 2.beta.-hydroxyprogesterone exhibited no formazan deposits.

L11 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1965:10380 CAPLUS

DOCUMENT NUMBER: 62:10380

ORIGINAL REFERENCE NO.: 62:1938e-f

TITLE: A search for inhibitors of prostate growth stimulators

AUTHOR(S): Tesar, Charles; Scott, William Wallace

CORPORATE SOURCE: Johns Hopkins Hosp., Baltimore, MD

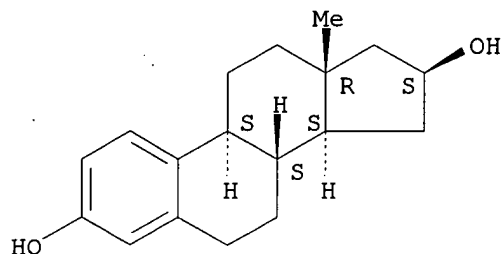
SOURCE: Investigative Urology (1964), 1(5), 482-98

CODEN: INURAQ; ISSN: 0021-0005

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable
 IT 1225-58-7, Estra-1,3,5(10)-triene-3,16.beta.-diol
 (as prostate growth inhibitor)
 RN 1225-58-7 CAPLUS
 CN Estra-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Wistar rats received 0.4 mg. testosterone propionate (I) subcutaneously every other day for 8 days following castration. Test compds. were given at 0.5, 1, and 2 mg. every other day for 7 days, with or without 0.4 mg. I in castrate and noncastrates, resp. Within 48 hrs. of the 7th (final) injection, animals were sacrificed with CHCl₃, and the prostate wt. to body wt. ratio, and the prostate wt. index were detd. The greatest prostate growth inhibitor was 17.beta.-estradiol, and some weak inhibition was seen with 6.alpha.-methyl-4-pregnene-3,20-dione-17.alpha.-ol acetate, androstane-3,17-dione, and 2.alpha.-methyl-4-estren-17.beta.-ol-3-one, the inhibitory effect being seen only in intact rats, and not in castrates, for all 52 compds. tested.

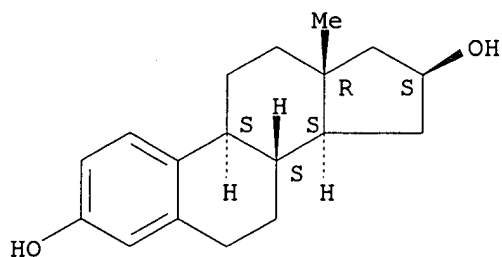
L11 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1960:98911 CAPLUS
 DOCUMENT NUMBER: 54:98911
 ORIGINAL REFERENCE NO.: 54:18799c-d
 TITLE: Cytostatic activities of steroidal estrogens against zebra-fish embryos
 AUTHOR(S): Jones, Roy W.; Rhone, James R.; Huffman, Max N.
 CORPORATE SOURCE: Oklahoma State Univ., Stillwater
 SOURCE: Proceedings of the Society for Experimental Biology and Medicine (1960), 104, 190-1
 CODEN: PSEBAA; ISSN: 0037-9727

DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable

IT 1225-58-7, Estra-1,3,5(10)-triene-3,16.beta.-diol
 (as cell-division inhibitor)
 RN 1225-58-7 CAPLUS
 CN Estra-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)

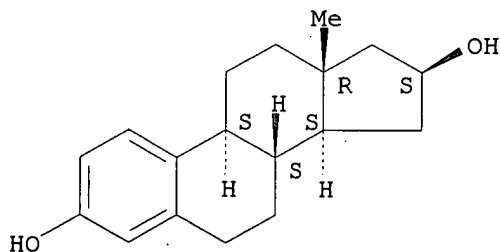
Absolute stereochemistry.



AB cf. CA 52, 3171c. The cytostatic effects of 14 steroidal estrogens (named) and the 3-Me and 3-Et ethers of each were tested on embryos of zebra-fish (*Brachydanio rerio*) as test object. Many were inactive in the concns. used. Most active was 17-dihydro-17.alpha.-equilin 3-ethyl ether (effective at 0.5 p.p.m.). There was no relation whatever between estrogenic hormone potency and cytostatic potency.

L11 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1959:17432 CAPLUS
 DOCUMENT NUMBER: 53:17432
 ORIGINAL REFERENCE NO.: 53:3276g-i, 3277a-f
 TITLE: Synthesis of 1,3,5(10)-estratriene-3,16.beta.,17.alpha.-triol
 AUTHOR(S): Fishman, Jack; Biggerstaff, Warren R.
 CORPORATE SOURCE: Sloan-Kettering Inst. for Cancer Research, New York, NY
 SOURCE: Journal of Organic Chemistry (1958), 23, 1190-2
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 IT 1225-58-7, Estra-1,3,5(10)(triene-3,16.beta.-diol (prepn. of)
 RN 1225-58-7 CAPLUS
 CN Estra-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

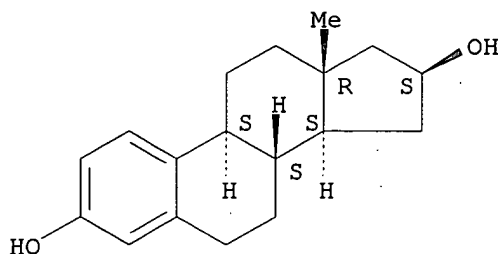


AB Prepn. of 1,3,5(10)-estratriene-3,16.beta.,17.alpha.-triol (I) is described. The 16.alpha.- (II) and 16.alpha.-bromo epimers (III) of estrone were also prepd. and some of their reactions studied. Of the 4 possible estriols isomeric at C-16 and C-17 only 3 are known. The present authors undertook the prepn. of the remaining isomer, I. Estrone enol diacetate (1 g.) in CCl₄ contg. some K₂CO₃ was treated with 1 equiv. of Br in CCl₄ and the mixt. worked up to give 700 mg. 16.alpha.-bromoestrone acetate (IV), m. 169-71.degree. (MeOH), [.alpha.]_D²⁴ 119.degree. (CHCl₃).

IV (0.3 g.) in 4% alc. H₂SO₄ left 20 hrs. at room temp., dild. with H₂O, and extd. with CHCl₃ gave 243 mg. II, needles, m. 225-8.degree. (C₆H₆), [.alpha.]_{24D} 120.degree. (CHCl₃). Acetylation of II with Ac₂O and C₅H₅N regenerated IV. IV (0.5 g.) in a min. amt. of 1:1 C₆H₆-ligroine was absorbed on Al₂O₃, left overnight on the column and eluted with first 3:2 and then 4:1 C₆H₆-ligroine, and the fractions combined on the basis of m.p. The first 5 fractions gave on crystn. 0.23 g. pure IV. Fractions 6-10 were mixts., and fractions 10-14 gave 47 mg. 16.beta.-bromoestrone acetate (V), needles, m. 170-3.degree. (MeOH), [.alpha.]_{25D} 156.degree. (CHCl₃). Subsequent fractions eluted from the column with more polar solvents proved to be a mixt. of the hydrolyzed II and III. A mixed m.p. of V with IV showed a depression of 40.degree.; the infrared spectra of II and III in CS₂ were different in the 1400-650 cm.⁻¹, but there was no difference in the position of the CO band at 1758 cm.⁻¹ Paper chromatography in several systems failed to sep. the 2 isomers. Room temp. hydrolysis of V 20 hrs. with 4% alc. H₂SO₄ gave free III, needles, m. 224-7.degree. (sublimation) (C₆H₆). An analytical sample of III m. 225-8.degree., [.alpha.]_{24D} 154.degree. (CHCl₃). III could be obtained by refluxing IV with 4% alc. H₂SO₄ overnight; the resultant mixt. was predominantly III which was purified by fractional crystn. Acetylation of III gave V. IV (1 g.) stirred 2 hrs. at 0.degree. with excess LiAlH₄ in anhyd. Et₂O, the excess reagent destroyed with H₂O and acidified with dil. HCl, and the org. phase evapd. gave 0.78 g. gum. Without purification, the material refluxed 4 hrs. with 5% alc. KOH, dild. with H₂O, extd. with CHCl₃, and chromatographed on Al₂O₃ gave 0.24 g. 16.beta.,17.beta.-epoxy-1,3,5(10)-estratrien-3-ol (VI), m. 200-4.degree. (C₆H₆-ligroine), [.alpha.]_{25D} 119.degree. (CHCl₃), and 92 mg. estrone. The structure of VI was established by reduction with LiAlH₄ to give 16.beta.-estradiol (VII), identical with a specimen prepd. from 1,3,5(10)-estratrien-16-one by NaBH₄ reduction. VII m. 224-6.degree.. V (150 mg.) reduced under identical conditions with LiAlH₄ followed by heating with alkali gave 94 mg. estrone. No 16.alpha.,17.alpha.-oxide was isolated. VI (0.3 g.) in 30 cc. AcOH refluxed 4 hrs., evapd., refluxed 1.5 hrs. with 6% alc. KOH, dild., acidified, and extd. with CHCl₃ gave 0.3 g. solid which was chromatographed on Al₂O₃ to give 124 mg. I, m. 248-50.degree. (C₆H₆-MeOH), [.alpha.]_{25D} 61.degree. (alc.). The subsequent fractions eluted weighed 64 mg. and proved to be the other trans isomer, 1,3,5(10)-estratriene-3,16.beta.,17.alpha.-triol (VIII). The infrared spectrum of I in KBr showed differences from the other 3 estriol isomers. Paper chromatography in C₆H₆-MeOH-H₂O-EtOAc system sepd. I from its isomers. I was less polar than VIII but considerably more polar than the 2 cis triols in the solvent system used. 1,3,5(10),16-Estratetraen-3-ol benzoate (100 mg.), m. 161-6.degree., in Et₂O treated with BzO₂H gave 111 mg. crude 16.alpha.,17.alpha.-epoxy-1,3,5(10)-estratrien-3-ol benzoate. Without further purification this material was refluxed 2 hrs. with 3 cc. AcOH under N, the AcOH removed, and the residue refluxed 1.5 hrs. in 8% alc. KOH to give 73 mg. yellow solid, which, decolorized and crystd., gave 23 mg. solid which was chromatographed on silica to give 12 mg. I. These results confirm the assignment of the Br orientation in II and III and also support the previous finding (C.A. 52, 5445b) that a 16.beta.-substituent results in the stereospecific .beta.-reduction of the 17-one while a 16.alpha.-substituent makes the reduction only stereoselective, with about 10-15% of .alpha.-reduction. The pharmacol. effects are being investigated.

DOCUMENT NUMBER: 52:93818
 ORIGINAL REFERENCE NO.: 52:16548d-f
 TITLE: Comparative ability of some steroids and their esters to enhance the renal .beta.-glucuronidase activity of mice
 AUTHOR(S): Fishman, Wm. H.; Lipkind, J. B.
 CORPORATE SOURCE: Tufts Univ. School of Med., Boston, MA
 SOURCE: Journal of Biological Chemistry (1958), 232, 729-36
 CODEN: JBCHA3; ISSN: 0021-9258
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 IT 1225-58-7, Estra-1,3,5(10)(triene-3,16.beta.-diol (potentiation of .beta.-glucuronidase of kidneys by)
 RN 1225-58-7 CAPLUS
 CN Estra-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB cf. C.A. 50, 17081h. The mouse renal .beta.-glucuronidase response permits a more reliable estimate of the potency of testosterone esters. A dose-response curve in which greatly reduced amts. of steroid were used was employed. The potency of a steroid in eliciting the .beta.-glucuronidase response is defined as 24 times the reciprocal of the dose required to produce a kidney assaying 10,000 units/g. The standard of reference is testosterone. According to this measure, testosterone propionate shows a potency of 60 and that of testosterone is 3.0. Nortestosterone cyclopentylpropionate was the most potent compd. (potency 150). There is a marked difference in response between testosterone propionate and its other esters vs. testosterone. 3,16.beta.-Estradiol and 16-oxoestrone gave 2- to 3-fold increases in renal .beta.-glucuronidase. The introduction of a 17-Me or 17-Et group into nortestosterone increased its potency as detd. by the renal .beta.-glucuronidase response.

L11 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1957:101244 CAPLUS
 DOCUMENT NUMBER: 51:101244
 ORIGINAL REFERENCE NO.: 51:18311d-g
 TITLE: The effect of natural and synthetic estrogens on reticuloendothelial system function
 AUTHOR(S): Heller, J. H.; Meier, R. M.; Zucker, R.; Mast, G. W.
 CORPORATE SOURCE: New England Inst. for Med. Research, Ridgefield, CT
 SOURCE: Endocrinology (1957), 61, 235-41
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 IT 1225-58-7, Estra-1,3,5(10)(triene-3,16.beta.-diol

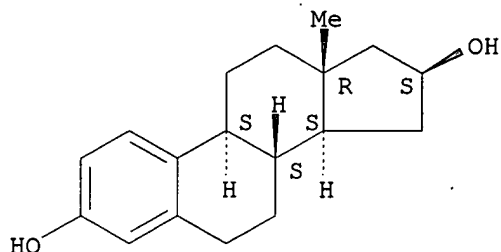
40997891

(effect on reticuloendothelial system)

RN 1225-58-7 CAPLUS

CN Estra-1,3,5(10)-triene-3,16-diol, (16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB The activity of the reticuloendothelial system was detd. by measuring the rate of disappearance by phagocytosis of intravenously injected colloidal C from the blood. The colloid uptake of various organs was detd. by assaying for CrP3204 content after an intravenous injection. Steroids increasing phagocytic velocity 100% or more were: estradiol, ethynylestradiol, estradiol-16-one, 1,3,5-estratriene-3,16.beta.-diol, 3-methoxy-1,3,5-estratriene-16.beta.-ol, estriol, 16-epiestriol, 3-methoxy-1,3,5-estratriene-16.beta.,17.beta.-diol, and 3-ethoxy-1,3,5-estratriene-16.beta.,17.beta.-diol; inactive were: 5-androstene-3.beta.,16.beta.-diol, androstane-3,16.beta.-diol, androstane-3.alpha.-ol-16-one, 4-androstene-3,16-dione, 5-androstene-3.beta.-ol-16-one, 3.beta.-methoxy-5-androstene-16-one, 1,3,5-estratriene-3,6.alpha.-diol, and 3-methoxy-1,3,5-estratriene-16-one. Stimulated activity of the reticuloendothelial system was accompanied by liver and spleen enlargement, without however, much increase in total colloid uptake by these organs.

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s Estra-1,3,5(10)-triene-3,16-diol, 7-alkyl
 MISSING OPERATOR 'STRA-1,3,5(10'

=> s Estra-1,3,5(10)-triene-3,16-diol, 7-ethyl
 MISSING OPERATOR 'STRA-1,3,5(10'

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	0.40	152.26
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-16.91

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FILE COVERS 1907 - 12 Jun 2003 VOL 138 ISS 24
 FILE LAST UPDATED: 11 Jun 2003 (20030611/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s Estra-1,3,5(10)-triene-3,16-diol, 7-ethyl
 MISSING OPERATOR 'STRA-1,3,5(10'
 The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s Estra-1,3,5(10)-triene-3,16-diol,7-ethyl
 MISSING OPERATOR 'STRA-1,3,5(10'
 The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

40997891

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.42	152.68
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-16.91

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DICTIONARY FILE UPDATES: 11 JUN 2003 HIGHEST RN 529474-19-9

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PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-16.91

FILE 'REGISTRY' ENTERED AT 14:14:16 ON 12 JUN 2003
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STRUCTURE FILE UPDATES: 11 JUN 2003 HIGHEST RN 529474-19-9
DICTIONARY FILE UPDATES: 11 JUN 2003 HIGHEST RN 529474-19-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

40997891

Crossover limits have been increased. See HELP CROSSOVER for details.

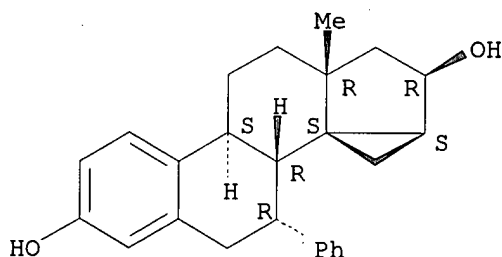
Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s 287723-43-7/rn
L12 1 287723-43-7/RN

=> d 112

L12 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 287723-43-7 REGISTRY
CN Cycloprop[14,15]estra-1,3,5(10)-triene-3,16-diol, 3',15-dihydro-7-phenyl-,
(7.alpha.,14S,15.alpha.,16.beta.)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H28 O2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.08	155.56

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-16.91

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FILE COVERS 1907 - 12 Jun 2003 VOL 138 ISS 24
FILE LAST UPDATED: 11 Jun 2003 (20030611/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 13:10:32 ON 12 JUN 2003)

FILE 'REGISTRY' ENTERED AT 13:10:38 ON 12 JUN 2003

L1 1 S 28834-40-4/RN
L2 1 S L1 FULL

FILE 'CAPLUS' ENTERED AT 13:12:23 ON 12 JUN 2003

L3 3 S L2

FILE 'REGISTRY' ENTERED AT 13:17:42 ON 12 JUN 2003

L4 STR 28834-40-4
L5 0 S L4 FAM SAM

FILE 'REGISTRY' ENTERED AT 14:03:13 ON 12 JUN 2003

L6 1 S 16 ALPHA ESTRADIOL

FILE 'CAPLUS' ENTERED AT 14:03:51 ON 12 JUN 2003

L7 3 S L1

FILE 'REGISTRY' ENTERED AT 14:04:32 ON 12 JUN 2003

L8 1 S 1090-04-6/RN

FILE 'CAPLUS' ENTERED AT 14:05:06 ON 12 JUN 2003

L9 3 S L7

FILE 'REGISTRY' ENTERED AT 14:06:05 ON 12 JUN 2003

L10 1 S 1225-58-7/RN

FILE 'CAPLUS' ENTERED AT 14:06:47 ON 12 JUN 2003

L11 17 S L10

FILE 'REGISTRY' ENTERED AT 14:08:46 ON 12 JUN 2003

FILE 'CAPLUS' ENTERED AT 14:08:57 ON 12 JUN 2003

FILE 'REGISTRY' ENTERED AT 14:11:21 ON 12 JUN 2003

FILE 'CAPLUS' ENTERED AT 14:12:14 ON 12 JUN 2003

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FILE 'REGISTRY' ENTERED AT 14:13:03 ON 12 JUN 2003

FILE 'REGISTRY' ENTERED AT 14:14:16 ON 12 JUN 2003

L12 1 S 287723-43-7/RN

FILE 'CAPLUS' ENTERED AT 14:14:48 ON 12 JUN 2003

=> s l12 full

L13 1 L12

=> d l13 ibib hitstr abs

L13 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:552017 CAPLUS

DOCUMENT NUMBER: 133:150782

TITLE: synthesis of 16-Hydroxyestratrienes as selectively effective estrogens

INVENTOR(S): Kuenzer, Hermann; Knauthe, Rudolf; Lessl, Monika; Fritzemeier, Karl-heinrich; Hegele-Hartung, Christa; Boemer, Ulf; Mueller, Gerd; Kosemund, Dirk

PATENT ASSIGNEE(S): Schering A.-G., Germany

SOURCE: Ger. Offen., 34 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19906159	A1	20000810	DE 1999-19906159	19990209
CA 2359660	AA	20000817	CA 2000-2359660	20000209
WO 2000047603	A2	20000817	WO 2000-EP1073	20000209
WO 2000047603	A3	20010802		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2000029095	A5	20000829	AU 2000-29095	20000209
EP 1144431	A2	20011017	EP 2000-907539	20000209
EP 1144431	A3	20020612		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000008076	A	20020205	BR 2000-8076	20000209
JP 2002536455	T2	20021029	JP 2000-598520	20000209
EE 200100412	A	20021216	EE 2001-412	20000209
NO 2001003860	A	20011008	NO 2001-3860	20010808
BG 105804	A	20020329	BG 2001-105804	20010809

PRIORITY APPLN. INFO.: DE 1999-19906159 A 19990209
WO 2000-EP1073 W 20000209

OTHER SOURCE(S): MARPAT 133:150782

40997891

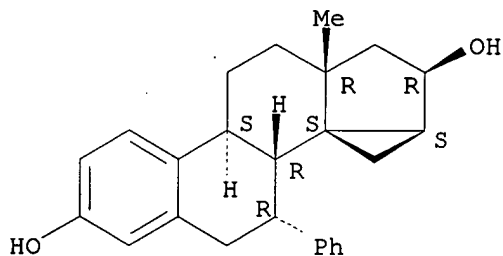
IT 287723-43-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis of 16-Hydroxyestratrienes as selectively effective estrogens)

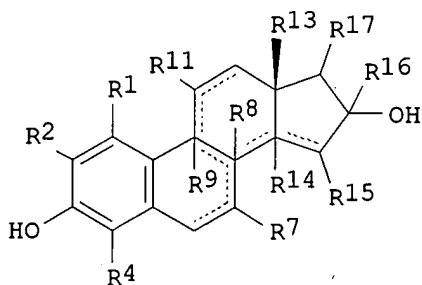
RN 287723-43-7 CAPLUS

CN Cycloprop[14,15]estra-1,3,5(10)-triene-3,16-diol, 3',15-dihydro-7-phenyl-, (7.alpha.,14S,15.alpha.,16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI



I

AB Synthesis of 16-Hydroxyestratrienes (I) [R1 = halogen, HO, Me, F3C, MeO, EtO, H; R2 = halogen, HO, (un)substituted alkoxy, H; R4 = halogen, fluoroalkyl, F3C, F5C2, (un)substituted alkoxy, H; R7 = halogen, (un)substituted alkyl, (un)substituted alkenyl, (un)substituted alkoxy, (un)substituted heteroaryl, (un)substituted aryl, H; R8 = H, fluoroalkyl, fluoroalkenyl, CN; R9 = H, Me, Et, F3C, F5C2; R11 = NO2O, HO, HS, halogen, chloromethyl, fluoroalkenyl, fluoroalkyl, (un)substituted alkoxy, (un)substituted alkylthio, (un)substituted aryl, (un)substituted heteroaryl, H; R13 = Me, Et, F3C, F5C2; R14 = (un)substituted alkenyl, (un)substituted alkyl, H; R15 = halogen, fluoroalkyl, fluoroalkenyl, =O, =S, SO, SO2, (un)substituted =NH; R14, R15 together = methylene; R16 = fluoroalkyl, fluoroalkenyl, F3C, F5C2, CN, H; R17 = fluoroalkyl, fluoroalkenyl, H, HO] as selectively effective estrogens is disclosed. Thus, 16.alpha.-estradiol shows a 50% uterine stimulation at 30 .upsilon.g in in vivo testing.

=> logoff

40997891

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:H

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
5.79	161.35

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.65	-17.56

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SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 14:16:29 ON 12 JUN 2003

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BR 6914715	A0	19730524	BR 1969-214715	19691203
FR 2032446	A5	19701127	FR 1970-3091	19700129
FR 2032446	B1	19730713		
US 3660435	A	19720502	US 1970-10648	19700211
GB 1246944	A	19710922	GB 1970-1246944	19700212
CS 163204	P	19750829	CS 1970-995	19700212
CS 163205	P	19750829	CS 1970-3137	19700212
SE 372937	B	19750120	SE 1970-2170	19700220
ES 376888	A1	19720516	ES 1970-376888	19700225
PL 71511	P	19740629	PL 1970-138993	19700225
BE 746546	A	19700826	BE 1970-746546	19700226
NL 7002749	A	19700831	NL 1970-2749	19700226
AT 295055	B	19711227	AT 1970-1789	19700226
AT 298699	B	19720525	AT 1970-9356	19700226
DK 124540	B	19721030	DK 1970-950	19700226
JP 52015593	B4	19770430	JP 1970-16337	19700227
DK 128495	B	19740513	DK 1971-2950	19710616

PRIORITY APPLN. INFO.:

CH 1969-2962 19690227

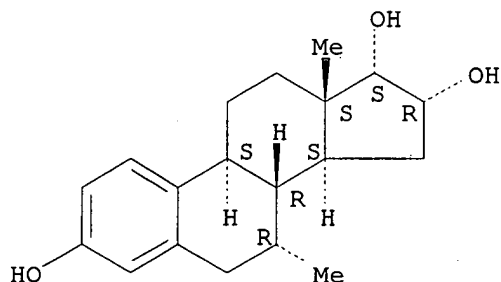
IT 28834-40-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 28834-40-4 CAPLUS

CN Estr-1,3,5(10)-triene-3,16,17-triol, 7-methyl-,
(7.alpha.,16.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI For diagram(s), see printed CA Issue.

AB The estrogenic, antigonadotropic, ovulation inhibiting, and (or) blastocyte implantation inhibiting title compd. (I) was prepd. by the treatment of II (prepd. from 7.alpha.-methylestrone by known methods) with OsO4 in pyridine at room temp. in the dark followed by refluxing with NaHSO3 in EtOH. I was also prepd. by the redn. of III with LiAlH4 in refluxing THF.

=>

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
14.44	69.34

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-1.95	-5.85

CA SUBSCRIBER PRICE

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FILE COVERS 1907 - 12 Jun 2003 VOL 138 ISS 24

FILE LAST UPDATED: 11 Jun 2003 (20030611/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 17

L9 3 L1

=> d his

(FILE 'HOME' ENTERED AT 13:10:32 ON 12 JUN 2003)

FILE 'REGISTRY' ENTERED AT 13:10:38 ON 12 JUN 2003

L1 1 S 28834-40-4/RN

L2 1 S L1 FULL

FILE 'CAPLUS' ENTERED AT 13:12:23 ON 12 JUN 2003

L3 3 S L2

FILE 'REGISTRY' ENTERED AT 13:17:42 ON 12 JUN 2003

L4 STR 28834-40-4

L5 0 S L4 FAM SAM

FILE 'REGISTRY' ENTERED AT 14:03:13 ON 12 JUN 2003

L6 1 S 16 ALPHA ESTRADIOL

FILE 'CAPLUS' ENTERED AT 14:03:51 ON 12 JUN 2003

L7 3 S L1

FILE 'REGISTRY' ENTERED AT 14:04:32 ON 12 JUN 2003

L8 1 S 1090-04-6/RN

FILE 'CAPLUS' ENTERED AT 14:05:06 ON 12 JUN 2003

L9 3 S L7

=> d l9 1-3 ibib hitstr abs

L9 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1973:537384 CAPLUS

DOCUMENT NUMBER: 79:137384

TITLE: Highly active estratriols

INVENTOR(S): Anner, Georg; Kalvoda, Jaroslav

40997891

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2209244	A	19720921	DE 1972-2209244	19720226
ZA 7201169	A	19721129	ZA 1972-1169	19720222
BE 780172	A1	19720904	BE 1972-114642	19720303
NL 7202873	A	19720907	NL 1972-2873	19720303
FR 2128593	A5	19721020	FR 1972-7489	19720303
PRIORITY APPLN. INFO.:			CH 1971-3234	19710305

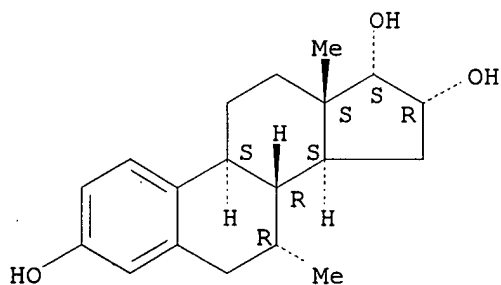
IT 28834-40-4

RL: BIOL (Biological study)
(pharmaceutical, for menopause disorder treatment)

RN 28834-40-4 CAPLUS

CN Estr-1,3,5(10)-triene-3,16,17-triol, 7-methyl-,
(7.alpha.,16.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Formulations contg. tranquilizing 9-(methylaminomethyl)-9,10-dihydro-9,10-ethanoanthracene (I) in addn. to an estrogen, useful against climacteric irritations, were described. A typical tablet contained I 5.0, 7.alpha.-methylestrone 0.2, lactose 88.0, wheat starch 45.8, colloidal silicic acid 5.0, talc 5.0, and Mg stearate 1.0 mg.

L9 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1970:509986 CAPLUS

DOCUMENT NUMBER: 73:109986

TITLE: 7.alpha.-Methyl-3,16.alpha.,17.beta.-trihydroxyestra-1,3,5(10)-triene

INVENTOR(S): Anner, Georg; Kalvoda, Jaroslav

PATENT ASSIGNEE(S): CIBA Ltd.

SOURCE: Ger. Offen., 14 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2007416	A	19700910	DE 1970-2007416	19700218
DE 2007416	C3	19730517		
CH 537914	A	19730731	CH 1969-2962	19690227

40997891

PATENT ASSIGNEE(S): Civa-Geigy A.-G.
SOURCE: Patentschrift (Switz.), 3 pp.
CODEN: SWXXAS
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 538460	A	19730815	CH 1973-3101	19690227
PRIORITY APPLN. INFO.:			CH 1973-3101	19690227

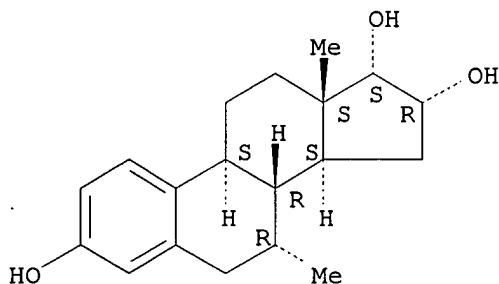
IT **28834-40-4P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation)
(manuf. and biol. activity of)

RN 28834-40-4 CAPLUS

CN Estr-1,3,5(10)-triene-3,16,17-triol, 7-methyl-,
(7.alpha.,16.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI For diagram(s), see printed CA Issue.

AB Estratrienetriol I (R = R3 = H; R1 = R2 = OH) (II) was prepd. from 7.alpha.-methylestrone (I, RR1 = O, R2 = R3 = H). Thus, I (RR1 = O, R2 = R3 = H) was treated with CH2:C(OAc)Me and the product III was epoxidized to I (R = H, R1R2 = O, R3 = Ac). LiAlH4 redn. of the latter and subsequent hydrolysis gave II. II had estrogenic activity in Allen-Doisy test of 0.001-0.1 mg/kg s.c. and 0.02-0.3 mg/kg orally in rats, and in Buelbring-Buen test of 0.0003-0.003 mg/kg s.c. and 0.003-0.03 mg/kg orally in rats. II had antigonadotropic activity of 0.0003-0.003 mg/kg s.c. or 0.003-0.01 mg/kg orally in Parabiosis test. Also, II inhibited ovulation and embryo implantation.

L9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1972:568615 CAPLUS

DOCUMENT NUMBER: 77:168615

TITLE: Menopausal hormone compositions

INVENTOR(S): Desaulles, Pierre A.; Hunger, Alfred; Bein, Hugo J.

PATENT ASSIGNEE(S): Ciba-Geigy A.-G.

SOURCE: Ger. Offen., 21 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

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NEWS	3	Jun 03	New e-mail delivery for search results now available
NEWS	4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	7	Sep 03	JAPIO has been reloaded and enhanced
NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	11	Oct 24	BEILSTEIN adds new search fields
NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	13	Nov 18	DKILIT has been renamed APOLLIT
NEWS	14	Nov 25	More calculated properties added to REGISTRY
NEWS	15	Dec 04	CSA files on STN
NEWS	16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	17	Dec 17	TOXCENTER enhanced with additional content
NEWS	18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	20	Feb 13	CANCERLIT is no longer being updated
NEWS	21	Feb 24	METADEX enhancements
NEWS	22	Feb 24	PCTGEN now available on STN
NEWS	23	Feb 24	TEMA now available on STN
NEWS	24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	25	Feb 26	PCTFULL now contains images
NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	27	Mar 20	EVENTLINE will be removed from STN
NEWS	28	Mar 24	PATDPAFULL now available on STN
NEWS	29	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	30	Apr 11	Display formats in DGENE enhanced
NEWS	31	Apr 14	MEDLINE Reload
NEWS	32	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	33	Apr 21	Indexing from 1947 to 1956 being added to records in CA/CAPLUS
NEWS	34	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	35	Apr 28	RDISCLOSURE now available on STN
NEWS	36	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	38	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS	39	May 16	CHEMREACT will be removed from STN

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NEWS 40 May 19 Simultaneous left and right truncation added to WSCA
NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and
right truncation
NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB
NEWS 43 Jun 06 PASCAL enhanced with additional data

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
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NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
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=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 13:10:38 ON 12 JUN 2003

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STRUCTURE FILE UPDATES: 11 JUN 2003 HIGHEST RN 529474-19-9

DICTIONARY FILE UPDATES: 11 JUN 2003 HIGHEST RN 529474-19-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s 28834-40-4/rn

40997891

L1 1 28834-40-4/RN

=> d 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN **28834-40-4** REGISTRY

CN Estra-1,3,5(10)-triene-3,16,17-triol, 7-methyl-,
(7.alpha.,16.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Estra-1,3,5(10)-triene-3,16.alpha.,17.alpha.-triol, 7.alpha.-methyl- (8CI)

OTHER NAMES:

CN 7.alpha.-Methyl-3,16.alpha.,17.alpha.-trihydroxy-.DELTA.1,3,5(10)-
estratriene

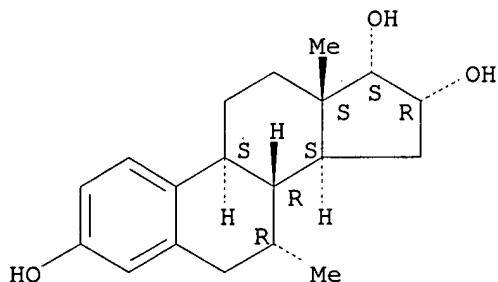
CN 7.alpha.-Methylestra-1,3,5(10)-triene-3,16.alpha.,17.alpha.-triol

FS STEREOSEARCH

MF C19 H26 O3

LC STN Files: BEILSTEIN*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1957 TO DATE)

3 REFERENCES IN FILE CAPLUS (1957 TO DATE)

=> s 11 full

L2 1 28834-40-4/RN

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

2.88

3.09

FILE 'CAPLUS' ENTERED AT 13:12:23 ON 12 JUN 2003

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FILE COVERS 1907 - 12 Jun 2003 VOL 138 ISS 24
 FILE LAST UPDATED: 11 Jun 2003 (20030611/ED)

This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s 12

L3 3 L2

=> d 13 ibib hitstr abs

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1973:537384 CAPLUS

DOCUMENT NUMBER: 79:137384

TITLE: Highly active estratriols

INVENTOR(S): Anner, Georg; Kalvoda, Jaroslav

PATENT ASSIGNEE(S): Civa-Geigy A.-G.

SOURCE: Patentschrift (Switz.), 3 pp.

CODEN: SWXXAS

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 538460	A	19730815	CH 1973-3101	19690227
PRIORITY APPLN. INFO.:			CH 1973-3101	19690227

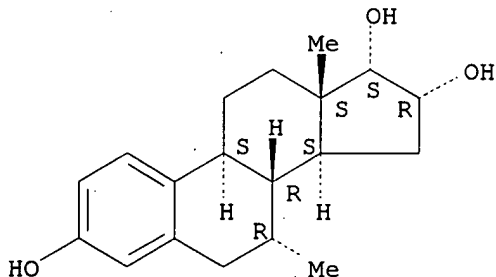
IT **28834-40-4P**

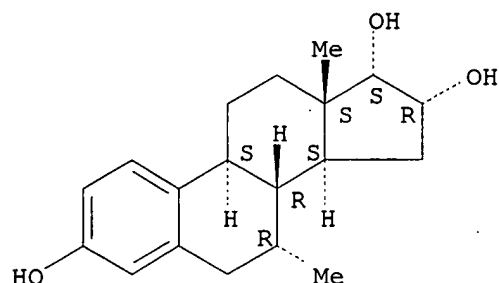
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation)
 (manuf. and biol. activity of)

RN 28834-40-4 CAPLUS

CN Estradiol, 1,3,5(10)-triene-3,16,17-triol, 7-methyl-,
 (7.alpha.,16.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





GI For diagram(s), see printed CA Issue.

AB Estratrienetriol I (R = R3 = H; R1 = R2 = OH) (II) was prepd. from 7.alpha.-methylestrone (I, RR1 = O, R2 = R3 = H). Thus, I (RR1 = O, R2 = R3 = H) was treated with CH2:C(OAc)Me and the product III was epoxidized to I (R = H, R1R2 = O, R3 = Ac). LiAlH4 redn. of the latter and subsequent hydrolysis gave II. II had estrogenic activity in Allen-Doisy test of 0.001-0.1 mg/kg s.c. and 0.02-0.3 mg/kg orally in rats, and in Buelbring-Buen test of 0.0003-0.003 mg/kg s.c. and 0.003-0.03 mg/kg orally in rats. II had antigonadotropic activity of 0.0003-0.003 mg/kg s.c. or 0.003-0.01 mg/kg orally in Parabiosis test. Also, II inhibited ovulation and embryo implantation.

=> d his

(FILE 'HOME' ENTERED AT 13:10:32 ON 12 JUN 2003)

FILE 'REGISTRY' ENTERED AT 13:10:38 ON 12 JUN 2003

L1 1 S 28834-40-4/RN
L2 1 S L1 FULL

FILE 'CAPLUS' ENTERED AT 13:12:23 ON 12 JUN 2003

L3 3 S L2

=> d l3 2-3 ibib hitstr abs

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1972:568615 CAPLUS

DOCUMENT NUMBER: 77:168615

TITLE: Menopausal hormone compositions

INVENTOR(S): Desaulles, Pierre A.; Hunger, Alfred; Bein, Hugo J.

PATENT ASSIGNEE(S): Ciba-Geigy A.-G.

SOURCE: Ger. Offen., 21 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

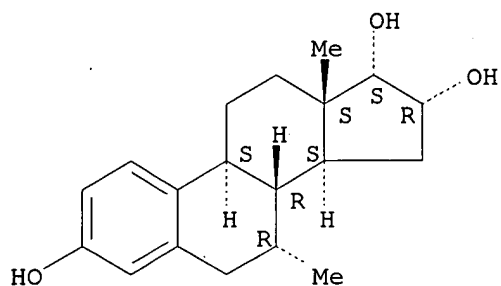
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2209244	A	19720921	DE 1972-2209244	19720226
ZA 7201169	A	19721129	ZA 1972-1169	19720222
BE 780172	A1	19720904	BE 1972-114642	19720303
NL 7202873	A	19720907	NL 1972-2873	19720303

*40997891

FR 2128593 A5 19721020 FR 1972-7489 19720303
PRIORITY APPLN. INFO.: CH 1971-3234 19710305
IT 28834-40-4
RL: BIOL (Biological study)
(pharmaceutical, for menopause disorder treatment)
RN 28834-40-4 CAPLUS
CN Estra-1,3,5(10)-triene-3,16,17-triol, 7-methyl-,
(7.alpha.,16.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Formulations contg. tranquilizing 9-(methylaminomethyl)-9,10-dihydro-9,10-ethanoanthracene (I) in addn. to an estrogen, useful against climacteric irritations, were described. A typical tablet contained I 5.0, 7.alpha.-methylestrone 0.2, lactose 88.0, wheat starch 45.8, colloidal silicic acid 5.0, talc 5.0, and Mg stearate 1.0 mg.

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1970:509986 CAPLUS
DOCUMENT NUMBER: 73:109986
TITLE: 7.alpha.-Methyl-3,16.alpha.,17.beta.-trihydroxyestra-1,3,5(10)-triene
INVENTOR(S): Anner, Georg; Kalvoda, Jaroslav
PATENT ASSIGNEE(S): CIBA Ltd.
SOURCE: Ger. Offen., 14 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2007416	A	19700910	DE 1970-2007416	19700218
DE 2007416	C3	19730517		
CH 537914	A	19730731	CH 1969-2962	19690227
BR 6914715	A0	19730524	BR 1969-214715	19691203
FR 2032446	A5	19701127	FR 1970-3091	19700129
FR 2032446	B1	19730713		
US 3660435	A	19720502	US 1970-10648	19700211
GB 1246944	A	19710922	GB 1970-1246944	19700212
CS 163204	P	19750829	CS 1970-995	19700212
CS 163205	P	19750829	CS 1970-3137	19700212
SE 372937	B	19750120	SE 1970-2170	19700220
ES 376888	A1	19720516	ES 1970-376888	19700225

PL 71511	P	19740629	PL 1970-138993	19700225
BE 746546	A	19700826	BE 1970-746546	19700226
NL 7002749	A	19700831	NL 1970-2749	19700226
AT 295055	B	19711227	AT 1970-1789	19700226
AT 298699	B	19720525	AT 1970-9356	19700226
DK 124540	B	19721030	DK 1970-950	19700226
JP 52015593	B4	19770430	JP 1970-16337	19700227
DK 128495	B	19740513	DK 1971-2950	19710616

PRIORITY APPLN. INFO.:

CH 1969-2962

19690227

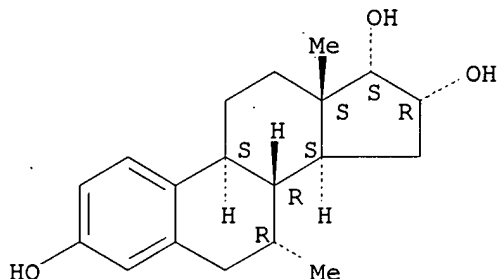
IT 28834-40-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 28834-40-4 CAPLUS

CN Estr-1,3,5(10)-triene-3,16,17-triol, 7-methyl-,
(7.alpha.,16.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI For diagram(s), see printed CA Issue.

AB The estrogenic, antigonadotropic, ovulation inhibiting, and (or) blastocyte implantation inhibiting title compd. (I) was prepd. by the treatment of II (prepd. from 7.alpha.-methylestrone by known methods) with OsO4 in pyridine at room temp. in the dark followed by refluxing with NaHSO3 in EtOH. I was also prepd. by the redn. of III with LiAlH4 in refluxing THF.